

OIEP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/855,158

DATE: 10/03/2001  
TIME: 15:37:40

Input Set : A:\pto\_Vsk.txt  
Output Set : N:\CRF3\10032001\I855158.raw

3 <110> APPLICANT: THEILL, LARS EYDE  
4 YU, GANG  
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70,  
BCMA, BLYS/AGP-  
7 3, AND TACI  
9 <130> FILE REFERENCE: A-686A  
11 <140> CURRENT APPLICATION NUMBER: US 09/855,158  
12 <141> CURRENT FILING DATE: 2001-09-11  
C--> 13 <150> PRIOR APPLICATION NUMBER: US 60/214,591  
14 <150> PRIOR FILING DATE: 2000-06-27  
15 <151> PRIOR APPLICATION NUMBER: US 60/204,039  
16 <150> PRIOR FILING DATE: 2000-05-12  
17 <151> PRIOR FILING DATE: 2000-05-12  
18 <160> NUMBER OF SEQ ID NOS: 30  
19 <170> SOFTWARE: PatentIn version 3.1  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 1465  
22 <212> TYPE: DNA  
23 <213> ORGANISM: Homo sapiens  
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26 tctgtgggtt cactggcgag cctgtctctc cttagaggac tggaaacctaa ttctcctgag 120  
27 cctgaaggag ggtggagggt ctcaaggcaa cgtctggccc acgacggagt gccaggagca 180  
28 gctaacgtag ccttagctgt ctttctctct cctctctttt tatttccaag ttctctttta 240  
29 cttaacgtag ccttagctgt ctttctctct cctctctttt tatttccaag ttctctttta 300  
30 tttctctctg cgttaacaac ttcttctctt ctgacacctt gcccgtaacc ttaccgcccc 360  
31 cgccaccctc ttgtatcccc actcttgaaa ccacagctgt tggcagggtc cccagctcat 420  
32 gccaaccttc tctctttctt tgctagcccc caaaggccct ccaggcaaca tggggggccc 480  
33 agtcagagag cggcagctct cagttgccct ctggttgagt tggggggcag ctcgtggggc 540  
34 cgtggctgtg gccatggctc tgctgaccca acaaacagag ctgcagagcc tcaggagaga 600  
35 ggtgagccgg ctcgaggggg caggaggccc ctcccaaat ggggaagggt atccctggca 660  
36 gagtctcccg gagcagagtt ccgatgccct ggaagcctgg gagagtggg agagatcccg 720  
37 gaaaaggaga gcagtgtctc cccaaaaaca gaagaagcag cactctgttc tgcacctgtt 780  
38 tcccaattac gccacctcca aggatgactc ccatgtgaca gaggtgatgt ggcacacgag 840  
39 tcttagggcg gggagaggcc tacaggccca aggataggt gtccgaatcc aggatgtggt 900  
40 agttttatct ctgtatagcc aggtcctggt tcaagacgtg actttcacca tgggtcaggt 960  
41 ggtgtctcga gaaggccaag gaaggcagga gactctattc cgtatgtata gaagtatgcc 1020  
42 ctcccaccgg gaccgggccc acaacagctg ctatagcgca ggtgtcttcc atttacacca 1080  
43 aggggatatt ctgagtgtca taattcccgg ggcaaggggc aaacttaacc ttctccacca 1140  
44 tggaaacctc ctggggtttg tgaacctgtg attgtgttat aaaagtggc tccagctgtg 1200  
45 gaagaccagg gtgggtacat actggagaca gccaaagact gagtataata aggaaggaga 1260  
46 atgtgcagga acagaggcgt ctctctgggt ttgctctccc gttctctcat ttctcctttt 1320  
47 catccaccac ccctagactt tgattttacg gatattcttg gatattcttg ccatggagctc 1380  
48 cgaattcttg cgtgtgtgta gatgaggggc gggggacggc cgcaggcatc tgttcagacc 1440  
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81 <210> SEQ ID NO: 2  
82 <211> LENGTH: 233  
83 <212> TYPE: PRT  
84 <213> ORGANISM: Homo sapiens

ENTERED

10/3/01

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89 1 5 10 15
92 Ser Trp Gly Ala Ala Leu Gly Ala Val Ala Cys Ala Met Ala Leu Leu
93 20 25 30
96 Thr Gln Gln Thr Glu Leu Gln Ser Leu Arg Arg Glu Val Ser Arg Leu
97 35 40 45
100 Gln Gly Thr Gly Gly Pro Ser Gln Asn Gly Glu Gly Tyr Pro Trp Gln
101 50 55 60
104 Ser Leu Pro Glu Gln Ser Ser Asp Ala Leu Glu Ala Trp Glu Ser Gly
105 65 70 75 80
108 Glu Arg Ser Arg Lys Arg Arg Ala Val Leu Thr Gln Lys Gln Lys Lys
109 85 90 95
112 Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys Asp
113 100 105 110
116 Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg Gly
117 115 120 125
120 Arg Gly Leu Gln Ala Gln Gly Tyr Gly Val Arg Ile Gln Asp Ala Gly
121 130 135 140
124 Val Tyr Leu Leu Tyr Ser Gln Val Leu Phe Gln Asp Val Thr Phe Thr
125 145 150 155 160
128 Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Gln Glu Thr Leu
129 165 170 175
132 Phe Arg Cys Ile Arg Ser Met Pro Ser His Pro Asp Arg Ala Tyr Asn
133 180 185 190
136 Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp Ile Leu
137 195 200 205
140 Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser Pro His
141 210 215 220
144 Gly Thr Phe Leu Gly Phe Val Lys Leu
145 225 230
148 <210> SEQ ID NO: 3
149 <211> LENGTH: 1486
150 <212> TYPE: DNA
151 <213> ORGANISM: Mus musculus
153 <400> SEQUENCE: 3
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156 gctgtggagg accagttatta ctgcgtggat tgctacaaga accttgtggc caagaagtgt 120
158 gctggatgca agaacccecat cactgggttt ggtaaaagct ccagtgtgtg ggccctatgaa 180
160 ggacaatcct ggcacgacta ctgcttccac tgcaaaaaat gtcocgtgaa tctggccaac 240
162 aagcgctcttg tatttcataa tgagcaggtg tattgccctg actgtgccaa aaagctgtaa 300
164 cttgacggct gccctgtcct tctatagataa tggcaccaaa ttctctgag gctagggggg 360
166 aaggagtgct agagtgctac tagctcgacc ctggggacaa gggggactaa tagtaccta 420
168 gcttgatttc ttctattct caagtctctt tttattttc tctctgtcac ctcttgcca cctcattct 480
170 cctctgtgct cttgtcctgt attocacacc tccctgtcac ctatctcca gggccacatg 540
172 gagaccacag ctgttggcag ggtccctagc tcatgccage cttcagttgg gggcgagttc 600
174 ggggctcagt cagagagcca gccctttcgg ttgctctttg gttgagttgg gggcgagttc 660
176 tgggggctgt gacttgtgct gtgcactac tgatccaaca gacagagctg caaagcctaa 720
178 ggcgggaggt gagccgctg cagcggagtg gaggggcctc ccagaagcag ggaagagcgc 780

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180 catggcagag cctctgggag cagagtcctg atgtcctgga agcctgggaag gatggggcga      840
182 aatctcggag aaggagagca gtactcacc agaagcaca gaagaagcac tcagtctctg      900
184 atctgttcc agttaacatt acctccaagg actctgacgt gacagaggtg atgtggcaac      960
186 cagtaacttag gcgtgggaga ggcctggagg cccagggaga cattgtacga gtctgggaca      1020
188 ctggaattta tctgtctat agtcaggctc tgtttcatga tgtgactttc acaatgggct      1080
190 aggtgggtatc tcgggaagga caaggggaga gaaaaactct attccgatgt atcagaagta      1140
192 tgccttctga tctcgaccgt gcctacaata gctgctacag tgcagggtgc ttctatttac      1200
194 atcaaggggga tattatcaact gtcaaaatcc caggggcaaa cgaaaaactt agcctttctc      1260
196 cgcattggaac attcctgggg tttgtgaac tatgatgttt ataaaggggg tggggatttc      1320
198 ccattccaata aactggctag acaaaggaca aggaacggtc aagaacagct cccatgggct      1380
200 ttgcttgac tgtgttctct cccttgcct ttccgcctcc cactatctg gctttgactc      1440
202 catggatatt aaaaaagtag aatattttgt gttattctcc caaaaa      1486
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206 <211> LENGTH: 240
207 <212> TYPE: PRT
208 <213> ORGANISM: Mus musculus
210 <400> SEQUENCE: 4
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213 1 5 10 15
216 Ala Leu Ser Val Ala Leu Trp Leu Ser Trp Gly Ala Val Leu Gly Ala
217 20 25 30
220 Val Thr Cys Ala Val Ala Leu Leu Ile Gln Gln Thr Glu Leu Gln Ser
221 35 40 45
224 Leu Arg Arg Glu Val Ser Arg Leu Gln Arg Ser Gly Gly Pro Ser Gln
225 50 55 60
228 Lys Gln Gly Glu Arg Pro Trp Gln Ser Leu Trp Glu Gln Ser Pro Asp
229 65 70 75 80
232 Val Leu Glu Ala Trp Lys Asp Gly Ala Lys Ser Arg Arg Arg Ala
233 85 90 95
236 Val Leu Thr Gln Lys His Lys Lys Lys His Ser Val Leu His Leu Val
237 100 105 110
240 Pro Val Asn Ile Thr Ser Lys Asp Ser Asp Val Thr Glu Val Met Trp
241 115 120 125
244 Gln Pro Val Leu Arg Arg Gly Arg Gly Leu Glu Ala Gln Gly Asp Ile
245 130 135 140
248 Val Arg Val Trp Asp Thr Gly Ile Tyr Leu Leu Tyr Ser Gln Val Leu
249 145 150 155 160
252 Phe His Asp Val Thr Phe Thr Met Gly Gln Val Val Ser Arg Glu Gly
253 165 170 175
256 Gln Gly Arg Arg Glu Thr Leu Phe Arg Cys Ile Arg Ser Met Pro Ser
257 180 185 190
260 Asp Pro Asp Arg Ala Tyr Asn Ser Cys Tyr Ser Ala Gly Val Phe His
261 195 200 205
264 Leu His Gln Gly Asp Ile Ile Thr Val Lys Ile Pro Arg Ala Asn Ala
265 210 215 220
268 Lys Leu Ser Leu Ser Pro His Gly Thr Phe Leu Gly Phe Val Lys Leu
269 225 230 235 240
272 <210> SEQ ID NO: 5
273 <211> LENGTH: 181

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274 <212> TYPE: PRT
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 5
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284 20 25 30
287 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
288 35 40 45
291 Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile Ile Ser
292 50 55 60
295 Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile Ser Ser Glu
296 65 70 75 80
299 Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu Leu Gly Met
300 85 90 95
303 Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu Ile Ile Leu
304 100 105 110
307 Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys Glu Asp Cys
308 115 120 125
311 Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe Pro Leu Pro
312 130 135 140
315 Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys Thr Asn Asp
316 145 150 155 160
319 Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu Ile Glu Lys
320 165 170 175
323 Ser Ile Ser Ala Arg
324 180
327 <210> SEQ ID NO: 6
328 <211> LENGTH: 51
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens
332 <400> SEQUENCE: 6
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335 1 5 10 15
338 Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu
339 20 25 30
342 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
343 35 40 45
346 Thr Asn Ala
347 50
350 <210> SEQ ID NO: 7
351 <211> LENGTH: 34
352 <212> TYPE: PRT
353 <213> ORGANISM: Homo sapiens
355 <400> SEQUENCE: 7
357 Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro
358 1 5 10 15
361 Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln Arg
362 20 25 30

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365 Tyr Cys
369 <210> SEQ ID NO: 8
370 <211> LENGTH: 21
371 <212> TYPE: PRT
372 <213> ORGANISM: Homo sapiens
374 <400> SEQUENCE: 8
376 Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile Ile Ser Leu Ala Val
377 1 5 10 15
380 Phe Val Leu Met Phe
381 20
384 <210> SEQ ID NO: 9
385 <211> LENGTH: 283
386 <212> TYPE: PRT
387 <213> ORGANISM: Homo sapiens
389 <400> SEQUENCE: 9
391 Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His
392 1 5 10 15
395 Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu
396 20 25 30
399 Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly
400 35 40 45
403 Thr Asn Ala Gly Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro
404 50 55 60
407 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
408 65 70 75 80
411 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
412 85 90 95
415 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
416 100 105 110
419 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
420 115 120 125
423 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
424 130 135 140
427 Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
428 145 150 155 160
431 Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
432 165 170 175
435 Gly Gln Pro Arg Glu Pro Gln Val Tyr Leu Pro Pro Ser Arg Asp
436 180 185 190
439 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
440 195 200 205
443 Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
444 210 215 220
447 Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe
448 225 230 235 240
451 Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
452 245 250 255
455 Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
456 260 265 270

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/855,158

DATE: 10/03/2001

TIME: 15:37:41

Input Set : A:\pto\_vsk.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22